

A/D converter and level shifter

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Abstract

An analog section (4) including the selector for analog input terminals, ladder resistors, a decoder for decoding the output of the ladder resistors, a chopper amplifier, and a sample and hold circuit, is operated by 5 V power-supply system. A digital section (5) that generates a control signal for controlling the operation of the analog section 4 is operated by 3.3 V power-supply system. No design change of a sensor connected from outside a microcomputer is required.

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[54] A/D CONVERTER AND LEVEL SHIFTER

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[57]

ABSTRACT

An analog section (4) including the selector for analog input terminals, ladder resistors, a decoder for decoding the output of the ladder resistors, a chopper amplifier, and a sample and hold circuit, is operated by 5 V power-supply system. A digital section (5) that generates a control signal for controlling the operation of the analog section 4 is operated by 3.3 V power-supply system. No design change of a sensor connected from outside a microcomputer is required.

20 Claims, 5 Drawing Sheets

